e at -20C	MCM2 Antibody	T C	ell Signaling ECHNOLOGY®
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
7		Support:	877-678-TECH (8324)
#400		Web:	info@cellsignal.com cellsignal.com
#		3 Trask Lane Danvers M	assachusetts 01923 USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IHC-P, IF-IC	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 125	Source: Rabbit	UniProt ID: #P49736	Entrez-Gene Id: 4171	
Product Usage Information	We: Imn Imn	Dlication stern Blotting nunoprecipitation nunohistochemistry nunofluorescence (r (Paraffin) Immunocytochemis	try)		Dilution 1:1000 1:50 1:100 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/m 20°C. Do not aliquot the antibody.				glycerol. Store at –	
Specificity / Sensitivity		MCM2 Antibody detects endogenous levels of total MCM2 protein.					
Source / Purificatio	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino-terminus of human MCM2. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	initia comp key o comp and replic grow appe of Mu chron initia beco invol	tion and elongation plex that is thought component of the p plex to the origin re licensing the DNA f cate only once per th do not occur (re ears to regulate MC CM3 at Ser112 dur matin loading <i>in vit</i> tion of DNA replica one unlicensed thre ved in checkpoint of	n of DNA replication to act as a replication re-replication complex for replication (revie cell cycle, thereby l viewed in 3). Phosp M complex activity ring late mitosis/ear ro (8). Phosphoryla tion (9). MCM prote- bugh inhibition of pr control by protecting	. MCM2-7 bind toge ve helicase at the D lex (pre-RC) (review (ORC) during late m wed in 2). Licensing helping to ensure the horylation of the M0 and the initiation of y G1 phase has be tion of MCM2 at ser ins are removed du e-RC reformation. S	family of six related pro ther to form the heterol NA replication fork (1-5 ved in 1). Cdc6 and CD itosis/early G1 phase fi g of the chromatin perm at genetic alterations ar CM2, MCM3, MCM4, ar DNA synthesis (6-8). C en shown to initiate con ine 139 by cdc7/dbf4 co ring DNA replication, ca Studies have shown tha e replication fork and as ved in 3,10).	hexameric MCM b). This complex is a T1 recruit the MCM forming the pre-RC hits the DNA to and malignant cell and MCM6 subunits DK1 phosphorylation applex formation and bincides with the ausing chromatin to t the MCM complex is	
Background Refere	2. Ly 3. Fo 4. Ty 5. La 6. Ch 7. Ma 8. Lir 9. Ts	gerou, Z. and Nurs prsburg, S.L. (2004 re, B.K. and Sawye bib, K. et al. (2000 harych, D.H. et al. (2006 n, D.I. et al. (2008) uji, T. et al. (2006)) Science 288, 164 2008) J Cell Bioche 5) J Biol Chem 281,	e 290, 2271-3. Rev 68, 109-31. Chem 275, 34833-6. 3-7. em 104, 1075-86. 39249-61. USA 105, 8079-84. 59-72.			
Species Reactivity	Speci	es reactivity is dete	ermined by testing i	n at least one appro	ved application (e.g., w	vestern blot).	
Western Blot Buffe			rn blots, incubate m with gentle shaking		d primary antibody in 5	% w/v BSA, 1X TBS,	
Applications Key			P: Immunoprecipita nce (Immunocytocl		histochemistry (Paraffii	ר)	

1/1/24, 7:53 AM Cross-Reactivity Key	MCM2 Antibody (#4007) Datasheet Without Images Cell Signaling Technology H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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